



## I. Current Poliomyelitis Morbidity Trends

Poliomyelitis incidence by week for the current year, with similar data for the three preceding years, is presented in the accompanying figure, drawn from data published by the National Office of Vital Statistics. Incidence rose sharply this week as it did during the same week in previous years, but remains somewhat lower than in the same period in the past three years.

Poliomyelitis incidence by states for the weeks ending June 18 through July 23 is presented in Table 1, together with a six week total for this and the previous three years. The rise in national incidence for the current week is due primarily to a large increase in cases reported from Massachusetts, with smaller rises recorded in New Hampshire, Connecticut, Ohio, Indiana, Wisconsin, Iowa, Nebraska, Virginia, Louisiana, Oklahoma and Colorado.

## II. Plans for Reorientation of the Surveillance Program

Revised plans for the Surveillance Program have been under development for some time and are now completed. Plans for the revised program entitled "Proposals for Modifying the National Poliomyelitis Surveillance Program" have been sent to all State and Territorial Health Officers and are presented in an attachment to the present report. In future PSU Reports listings will be published of the states that have indicated their desire to participate in Special Studies.

Progress reports on special studies will be presented in future PSU Reports as they become available. Special Studies are at present organized in New York, California, Idaho and Minnesota. A surveillance program for both poliomyelitis and encephalitis is being developed at the Kansas City Field Station for Iowa, Nebraska, Missouri, Kansas, Arkansas and Oklahoma. PSU would appreciate learning of Special Studies now being planned in other states.

## III. Routine Poliomyelitis Surveillance

Table 2 summarizes poliomyelitis cases in vaccinated individuals, in parents and siblings of vaccinated individuals, and in community contacts, accepted by PSU through July 29, 1955. (See tabular summary for details of cases accepted since July 20 and revisions of previously listed cases.) Several reports of recent virus isolations are included in the tabular summary.

Table 3 presents a comparison of "reported" and "expected" cases among children receiving first inoculations in NFIP clinics through May 7. Cases are listed for the six week period ending May 28 and for the weeks ending June 4 through July 30. The "expected" numbers represent rough estimates of cases that would have occurred in the respective groups of first and second grade children if they had not been vaccinated and if this year's poliomyelitis incidence approximated the median of the last five years.

As discussed in the "Proposals for Modifying the National Poliomyelitis Surveillance Program", family and community contact cases will no longer be reported on a routine basis. Routine Surveillance will in future be limited to cases occurring in vaccinated individuals, with additional notes on any unusual situations of special interest.

#### IV. Polio-Like Diseases

In a memorandum, dated July 18, 1955, the New York State Department of Health notes the prevalence of a polio-like syndrome in certain parts of the state:

"An illness, primarily in children, has been reported in the past few weeks from parts of Albany, Clinton, Erie and Rensselaer Counties. It is mild, self-limited, with moderately stiff neck, increased cells and protein and normal sugar, in the spinal fluid. It is difficult to distinguish clinically from non-paralytic poliomyelitis, but the relatively large number of cases seen within a short period of time, the lack of paralysis, and the development of multiple cases, are epidemiological reasons why it probably is not poliomyelitis. Dr. Winsser, of the Division of Laboratories and Research, is currently studying specimens".

The California State Health Department notes the continuing absence of laboratory proven cases of arthropod-borne encephalitis in the state this year, as well as the absence of virus isolations from mosquito pools:

"Since May 1st, 401 pools of mosquitoes have been submitted to the Viral and Rickettsial Disease Laboratory. To date there have been no isolations of either Western equine or St. Louis encephalitis viruses from the 207 pools on which testing is complete. At this time last year from 397 pools submitted, 76 isolations of Western equine and 12 of St. Louis virus had been obtained from the four designated sampling areas, Fresno, Kern, San Joaquin and Sutter-Yuba Counties".



# CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1952-1954

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS

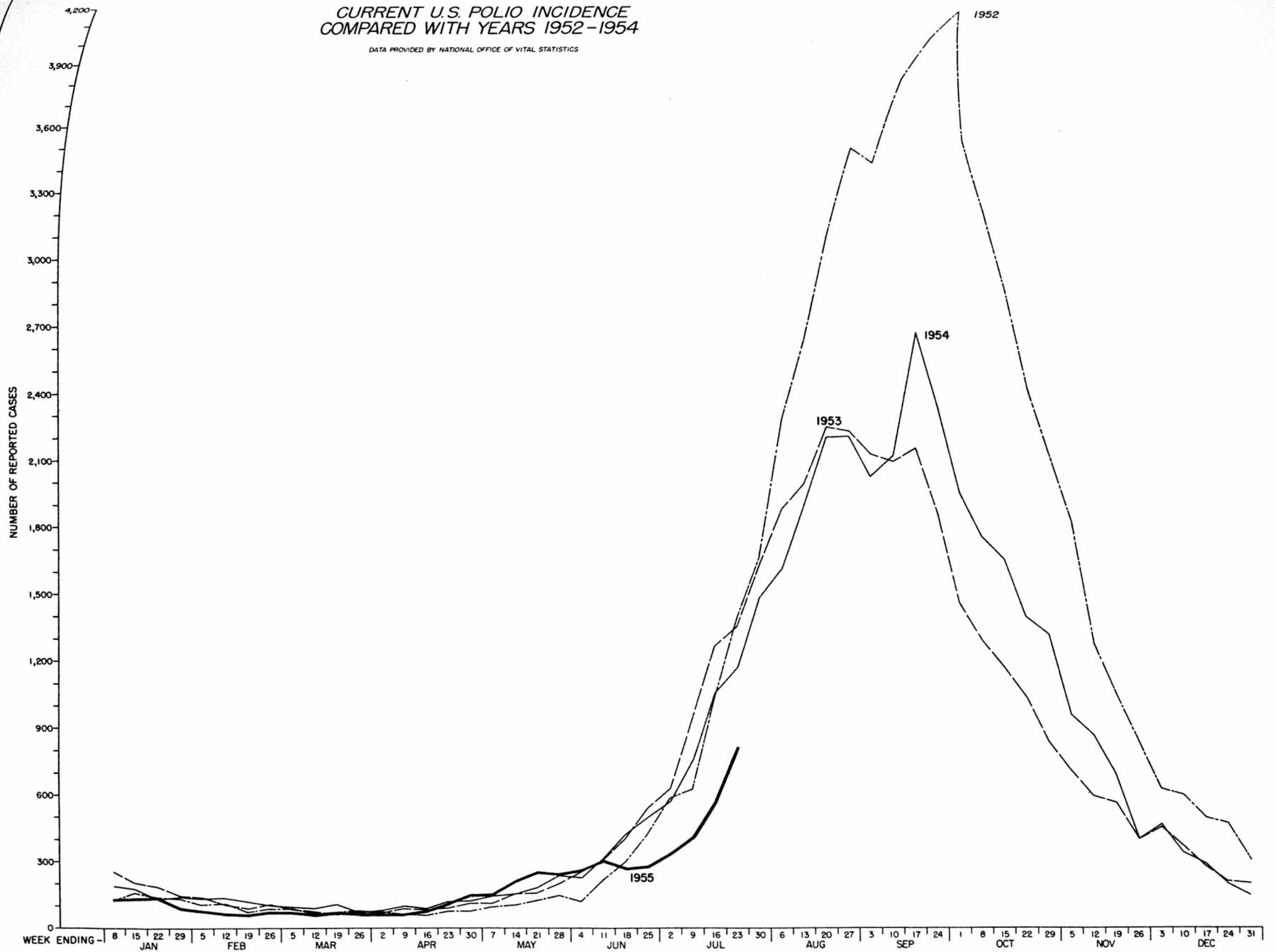




Table I

## TREND OF 1955 POLIOMYELITIS INCIDENCE

State	Cases Reported to NOVS* During Week Ending:						6 Week Total	Comparable Totals In:		
	6/18	6/25	7/2	7/9	7/16	7/23		1954	1953	1952
United States	266	277	333	406	565	812	2659	4470	5129	4360
North East										
Maine	1	1	-	1	1	5	9	7	30	9
New Hampshire	-	-	-	-	-	9	9	6	15	2
Vermont	-	1	-	3	-	1	5	4	5	4
Massachusetts	2	4	1	24	52	146	229	37	54	15
Rhode Island	-	1	-	-	5	4	10	3	12	-
Connecticut	-	-	5	5	5	20	35	55	59	13
New York	19	16	25	25	43	42	170	142	337	159
New Jersey	2	4	5	3	16	12	42	58	80	34
Pennsylvania	8	10	10	7	10	12	57	52	96	36
North Central										
Ohio	4	12	22	14	21	35	108	157	276	202
Indiana	3	4	4	6	7	16	40	54	79	45
Illinois	9	13	10	5	29	19	85	147	254	98
Michigan	9	9	9	18	31	36	112	212	224	108
Wisconsin	3	4	9	6	14	40	76	23	46	52
Minnesota	3	6	2	13	2	15	41	50	212	57
Iowa	4	3	10	11	14	24	66	160	69	225
Missouri	3	-	4	4	10	10	31	63	155	38
North Dakota	1	1	3	3	4	1	13	12	7	4
South Dakota	3	1	-	3	-	-	7	13	22	32
Nebraska	-	1	3	3	8	16	31	111	55	113
Kansas	5	8	2	3	8	6	32	113	92	98
South										
Delaware	1	-	1	3	-	1	6	5	6	3
Maryland	4	2	3	7	2	5	23	11	69	9
District of Col.	-	1	1	1	2	5	10	5	12	7
Virginia	4	6	8	7	8	18	51	53	169	47
West Virginia	-	1	3	2	1	4	11	21	74	58
North Carolina	1	3	8	9	20	10	51	71	332	56
South Carolina	1	8	6	12	15	14	56	74	39	3
Georgia	1	4	5	6	6	6	28	132	136	88
Florida	29	14	10	3	10	7	73	287	95	107
Kentucky	-	5	3	5	10	13	36	76	86	101
Tennessee	4	3	3	10	9	7	36	81	185	70
Alabama	9	3	8	9	3	8	40	82	162	73
Mississippi	5	7	9	-	15	7	43	141	119	177
Arkansas	7	1	5	5	11	6	35	81	79	52
Louisiana	14	12	17	8	3	20	74	143	158	233
Oklahoma	5	3	4	12	8	19	51	145	168	150
Texas	62	45	43	76	83	89	398	696	470	1180

Table I (Continued)

State	Cases Reported to NOVS*						6 Week Total	Comparable Totals in:		
	6/18	6/25	7/2	7/9	7/16	7/23		1954	1953	1952
West										
Montana	-	2	2	1	-	-	5	10	18	24
Idaho	3	7	8	7	6	7	38	7	4	10
Wyoming	-	1	1	-	-	3	5	49	11	6
Colorado	3	3	6	2	2	9	25	45	31	36
New Mexico	-	3	10	8	4	7	32	19	24	66
Arizona	1	1	6	-	3	1	12	54	46	34
Utah	1	2	2	-	1	-	6	15	24	5
Nevada	5	3	6	4	2	4	24	23	10	-
Washington	2	2	3	5	7	5	24	34	41	102
Oregon	4	3	3	4	5	9	28	36	18	39
California	21	33	25	43	49	59	230	595	364	280

\*National Office of Vital Statistics.

Table 2

Poliomyelitis Cases with Some Association  
with Poliomyelitis Vaccine  
(PSU Accepted Cases through July 29, 1955)

	C*		L		PD		PM		W	
	P	NP								
CASES VACCINATED 5-7 OR BEFORE WITH ONSETS 30 DAYS OR LESS AFTER VACCINATION										
Totals thru 7-29	62	12	17	23	2	2	3	2	9	3
(No new Cases 7-21 thru 7-29)	74		40		4		5		12	
CASES VACCINATED 5-7 OR BEFORE WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION										
Totals thru 7-20 (Revised)	1	1	11	24	2	3	3	1	3	0
New Cases 7-21 thru 7-29	0	0	4	12	0	2	0	0	0	0
Totals thru 7-29	1	1	15	36	2	5	3	1	3	0
	2		51		7		4		3	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 30 DAYS OR LESS AFTER VACCINATION										
Totals thru 7-20 (Revised)			3	4	12	10	1	0		
New Cases 7-21 thru 7-29			1	4	0	0	0	0		
Totals thru 7-29	0	0	4	8	12	10	1	0	0	0
	0		12		22		1		0	
CASES VACCINATED 5-8 OR LATER WITH ONSETS 31 DAYS OR MORE AFTER VACCINATION										
Totals thru 7-20 (Revised)			0	0	3	2				
New Cases 7-21 thru 7-29			0	2	1	2				
Totals thru 7-29	0	0	0	2	4	4	0	0	0	0
	0		2		8		0		0	
CASES IN FAMILY CONTACTS OF VACCINATED INDIVIDUALS										
Totals thru 7-20 (Revised)**	68	21	25	7	26	8	2	0	10	3
New Cases 7-21 thru 7-29	4	3	3	3	3	1	0	0	1	0
Totals thru 7-29**	72	24	28	10	29	9	2	0	11	3
	96		38		38		2		14	
CASES IN COMMUNITY CONTACTS OF VACCINATED INDIVIDUALS										
Totals thru 7-29***	14	2	5	0	3	1	0	1	4	3
(No New Cases 7-21 thru 7-29)	16		5		4		1		7	

\*Vaccine Manufacturers: C - Cutter; L - Lilly; PD - Parke-Davis;  
PM - Pitman-Moore; W - Wyeth.

\*\*Does not include 5 paralytic and 2 non-paralytic cases whose contacts had inoculations with vaccines of two manufacturers.

\*\*\*Does not include 1 paralytic case whose contacts had inoculations with vaccines of two manufacturers.



Table 3

Comparison of Expected\* and Reported\*\* Cases of Poliomyelitis  
Among Children Inoculated in NFIP Clinics from April 15 to May 7, 1955

Vaccine Mfr.*** and Number Vaccinated	Cases	6 Week Total to May 28	Onset in Week Ending:									
			June 4	June 11	June 18	June 25	July 2	July 9	July 16	July 23	July 30	
Cutter 303,000	Reported	P	32									
		NP	8		1	1						
	Total		40	-	1	1	-	-	-	-	-	-
	Expected	Total	5	1	2	2	2	3	4	4	6	8
Lilly 2,514,000	Reported	P	18	1	2	3	3	2	2	1		
		NP	33	2	2	4	6	1	9	7		
	Total		51	3	4	7	9	3	11	8	-	-
	Expected	Total	28	11	16	20	22	29	39	37	43	47
Parke-Davis 860,000	Reported	P	2	1		1						
		NP	3	1	1					1	1	
	Total		5	2	1	1	-	-	-	1	1	-
	Expected	Total	3	1	1	2	3	3	10	15	19	22
Pitman-Moore 411,000	Reported	P	2	3		1						
		NP	2			1						
	Total		4	3	-	2	-	-	-	-	-	-
	Expected	Total	1	1	1	1	2	3	6	6	9	8
Wyeth 775,000	Reported	P	9	1					2			
		NP	3									
	Total		12	1	-	-	-	-	2	-	-	-
	Expected	Total	1	0-1	0-1	1	2	3	3	4	7	10

Footnotes on Back

\*Expected Cases estimated from weekly 5-year medians of cases of poliomyelitis (paralytic and non-paralytic) reported to National Office of Vital Statistics by the States.

\*\*Reported Cases include only cases accepted by PSU through July 29 and vaccinated in NFIP Clinics April 16 through May 7, 1955.

\*\*\*Cutter vaccine was used in Idaho, Nevada, Arizona, New Mexico, and southern California. LILLY vaccine was used in Texas, Oklahoma, Louisiana, Arkansas, Mississippi, Alabama, Tennessee, Florida, Georgia, South Carolina, North Carolina, Virginia, West Virginia, Indiana, and parts of Ohio, California, and Colorado. PARKE-DAVIS vaccine was used in Michigan, Illinois, Iowa, Wyoming, Utah, and part of Colorado. WYETH vaccine was used in Pennsylvania, Delaware, Maryland, District of Columbia, and part of Ohio.

POLIOMYELITIS AMONG VACCINATED INDIVIDUALS  
(PSU Accepted Cases July 21 - July 27, 1955)

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc.	Date 1st Symp	Date 1st Para	Site Inoc.	Site 1st Para	Mfr.	Lot No.	Remarks
NJ-1	Morris	JI	8	F	6-19	7-3	7-3	?	?	L	?	
Ind-2	Jay	GMS	7	F	4-26	7-15	7-15	LA	Legs	L	8123- 649335	
Miss-6	Panola	JP	8	M	4-20	7-5	None	LA	None	L	5080-649339	Spinal fluid, 130 cells.
Miss-7	Lowndes	GS	7	M	4-20	7-7	None	LA	None	L	5087-649339	Spinal fluid, 102 cells.
Miss-8	Jones	WWW	7	M	4-19	7-7	None	LA	None	L	5080-649339	Spinal fluid, 500 cells.
Miss-9	Coahoma	LJJ	7	F	4-22	7-6	None	RA	None	L	5080-649339	Spinal fluid 306 cells.
Miss-10	Jones	KLS	6	M	4-20	6-22	None	LA	None	L	5080-649339	Spinal fluid 18 cells.
NY-21	Nassau	WM	8	M	May & mid-June	7-19	None	?	None	PD	028850B 028850B or 029129A	Spinal fluid, 145 cells.
NY-22	Nassau	NB	6	F	May	7-19	7-23	?	Bulbar	PD	028850B	
Ga-5	Fulton	REG	5	M	May & 6-23	7-19	None	LA	None	L	?	Spinal fluid 100 cells, non- paralytic.
Tex-30	Dallas	LBJ	7	M	4-20	7-3	7-6	Arm	Bulbar	L	7080-649343	
Tex-31	Harris	TRP	8	M	4-19	7-15	None	RA	None	L	7080-649343	Spinal fluid 226 cells.
Tex-32	Lubbock	BDH	8	M	April	7-9	None	Arm	None	L	7080-649342	
Tex-33	Harris	RH	7	M	April	7-9	None	?	None	L	7080-649343	Spinal fluid 115 cells.

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc.	Date 1st Symp	Date 1st Para	Site Inoc	Site 1st Para	Mfr.	Lot No.	Remarks
NEW (Continued)												
Tex-34	Cass	JBL	8	M	4-22	6-26	6-29	LA	RL	L	7080-649342	
Tex-35	Harris	SC	6	F	4-19	7-13	None	LA	None	L	7080-649343	Spinal fluid, 41 cells.
Tex-36	Tarrant	CRM	8	F	Early May	7-12	None	RA	None	L	7078-649343	Spinal fluid, 245 cells.
Tex-37	Harris	TT	6	M	4-19	7-10	None	LA	None	L	7080-649343	Spinal fluid, 60 cells.
Tex-38	Harris	JLR	9	F	4-19	7-7	7-11	LA	Rt. palate	L	7078-649343	
Tex-39	Cameron	JY	7	F	April	6-24	None	Arm	None	L	7080-649342	Spinal fluid, 54 cells.
Tex-40	Nueces	JDS	7	M	4-20	7-4	None	LA	None	L	7078-649343	Spinal fluid, 146 cells.
NC-3	Durham	WFH	?	F	Early May	7-5	None	Arm	None	L	5080-649339	
NC-4	Cumberland	EJA	?	M	5-21	7-8	None	Arm	None	L	5080-649339	
NC-5	Rockingham	ST	?	M	4-22	7-10	None	Arm	None	L	5080-649339	
NC-6	Bladen	BGI	?	F	4-21	7-13	None	LA	None	L	5080-649339	
Mich-2	Wayne	BH	6	M	4-21	7-23	None	LA	None	PD	028860B	
Mich-3	Wayne	RA	7	M	4-25	7-13	None	LA	None	PD	028860B	
NY-23	Cattaraugus	KF	7	F	5-22	7-20	None	LA	None	PD	029129A	Spinal fluid, 483 cells.
REVISIONS (Revised Items Underlined)												
NH-1	Cheshire	EGG	8½	M	<u>6-15</u>	7-16	None	<u>LA</u>	None	PD	029126A	
Tex-7	San Angelo	DK	7	M	<u>4-21</u>	5-4	None	<u>LA</u>	None	L	7080-649343	Type 3(6-24) Irons from contact.
NY-17	Westchester	GS	6	M	5-23	6-22	<u>6-24</u>	<u>LA</u>	<u>Palate</u>	PD	029128C	
Pa-2	Delaware	CS	7	F	<u>4-27</u>	<u>5-6</u>	<u>5-8</u>	<u>LA</u>	<u>LA</u>	W	236-	Type 1 virus, 5-18 Dr. Henle).

POLIOMYELITIS AMONG UNVACCINATED PERSONS GIVING HISTORY OF FAMILIAL CONTACT WITH INDIVIDUALS  
WHO HAVE RECEIVED POLIOMYELITIS VACCINE  
(PSU Accepted Cases July 21 - July 27, 1955)

Vaccinated Individuals

Poliomyelitis Cases (Not vaccinated)

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc	Date Illness	Type Illness	Lot Mfr. No.	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
NY-X11	Chautauqua	?	?	?	5-20	?	?	PD 029129A <sup>NEW</sup>	WP	15	M	7-4	7-4	?	
NY-X12	Suffolk	JJB	9	M	5-20	?	?	PD 029128C	VB	34	F	7-10	None	None	Spinal fluid, 432 cells.
Ore-X8	Malheur	CP	7	M	5-27	?	?	PD 028847A	CP	9/12	F	6-5	6-7	RA	
		DAP	6	F	5-27	?	?	PD 028847A							
Va-X5	Fairfax	JF	?	?	4-28-54	?	?	L 502	RLF	5	M	7-11	None	None	Spinal fluid, 400 cells.
					5-5-54			L 502							
					6-2-54			L 307							
Va-X6	Fairfax	RS	?	M	4-26	?	?	L 8122- 649334	JGS	4	M	7-18	None	None	Spinal fluid, 150 cells.
Va-X7	Fairfax	KM	?	F	4-25	?	?	L 8122- 649334	JMM	16	M	7-10	7-10	RL	
Va-X8	Arlington	GR.	?	M	4-26	?	?	L 8122- 649334	ACR	4	M	7-16	None	None	Spinal fluid, 450 cells.
Va-X9	Norfolk	JM	6½	M	5-4	?	?	L ?	MLM	4	F	7-8	7-8	?	
Ala-X10	Escambia	DB	7	M	4-22	?	?	L 5079- 649338	MAB	10 mo.	M	7-12	7-12	?	
					7-1			L 5207- 649349							
Ida-X28	Bingham	?	?	?	4-19 or 20	?	?	C E6039 E6058	FH	4	M	6-1	None	None	Type 1 virus from case (7-13) two vaccinated contacts (7-18) and 1 non-vaccinated contact 7-21 (RML).

FAMILIAL CONTACTS (Continued)

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc.	Date Illness	Type Illness	Lot Mfr. No.	Ini- tials	Age	Sex	Date 1st Symp.	Date 1st Para	Site 1st Para	Remarks
<u>NEW (Continued)</u>															
Ida-X29	Shoshone	?	?	F	4-19	?	?	C E6039 E6058	DP	8	M	6-17	6-24	LL	Type 1 virus from case (7-23) RML.
Ida-X30	Bonneville	JH	?	M	4-19	?	?	C "	HH	2	M	5-30	None	None	Type 1 virus from case and one vaccinated contact and two non-vaccinated contacts (7-21) RML.
Ida-X31	Twin Falls	DD	?	?	?	?	?	C "	DD	27	F	6-12	?	Bulbar	Type 1 from case and contact 7-25 (RML).
Ida-X32	Lewis	?	?	F	4-19	?	?	C "	RB	1	M	5-23	?	LA LL	Type 1 from case and 1 vaccinated contact and 1 non-vaccinated contact (7-18) RML.
Ida-X33	ADA	JW	?	?	?	?	?	C "	JW	2	M	5-23	?	?	Paralytic, type 1 from case and contact, 7-18 (RML).
Ill-X7	Williamson	?	7	F	4-27	?	?	PD 028863B	RLH	5	M	5-17	5-17	?	
Pa-X2	Delaware	CB	7	F	5-9	?	?	W ?	DB	3	M	5-23	5-24	Bulbar	
Cal-X42	LA	?	?	?	?	?	?	C ?	GB	31	F	5-20	None	None	Type 1 from case (7-22)
<u>REVISIONS</u> (Revised Items Underlined)															
Ore-X5	Multnomah	DP	?	F	5-27 6-8	?	?	PD 028847A	CP	9/12	F	6-5	6-7	RA	<u>Type 1 virus from case, one vaccinated contact and one non-vaccinated contact.</u>
Ore-X7	Lane	<u>SO</u>	7	F	<u>5-25</u>	None	None	PD 028847A	MO	35	F	7-1	<u>7-1</u>	Bulbar	<u>Type 1 virus from SO and 4 non-vaccinated contacts.</u>
Cal-X8	San Diego	?C	?	F	4-16	?	?	C ?	AC	2	M	5-10	5-12	LL	<u>Type 1 virus from case 7-22, Lennette.</u>
Ida-X14	Ada	KK	7	F	?	?	?	C 028847A	KK	2	F	5-24	5-27	LL	<u>Type 1 from case, 1 vaccinated contact and 2 non-vaccinated contacts (7-11) RML.</u>

FAMILIAL CONTACTS (Continued)

PSU CASE NO.	County	Ini- tials	Age	Sex	Date Inoc.	Date Illness	Type Illness	Lot Mfr. No.	Ini- tials	Age	Sex	Date 1st Symp	Date 1st Para	Site 1st Para	Remarks
Revisions (Continued)															
Ida-X15	Bear Lake	SP	7	F	4-20	?	?	C E6039 E6058	JP	3	M	5-17	5-22	?	<u>Type 1 from case and contact 7-25 (RML).</u>
Ida-X23	Canyon	?	7	M	4-21	?	?	?	CC	4	M	5-1	None	None	<u>Type 1 virus from sibling 7-18 RML.</u>
Cal-X1	Ventura	WLB	23mo.	M	4-14 or 15	?	?	C 5971	BB	29	F	5-2	5-7	Spinal	<u>Type 1 virus from case and contact 7-22.</u>
Cal-X25	Los Angeles	CM	6	M	4-18	?	?	C E5970	KM	9	F	5-11	5-17	Bulbo- spinal	<u>Type 1 from case and contact (7-22).</u>

